RUJEUI WIERUUNI

ASTRONAUT TRAINING PROGRAM

- 1. EDUCATION IN ASTRONAUTICS AND SPACE BIOLOGY
- 2. PARTICIPATION IN MERCURY DEVELOPMENT PLAN
- 3. CONDITIONING FOR SPACE FLIGHT
- 4. TRAINING IN OPERATION OF MERCURY VEHICLE
- 5. FAMILIARIZATION WITH GROUND OPERATIONS
- 6. AVIATION FLIGHT TRAINING

Note

INTENSIVE EXAMINATIONS

PHASE	TITLE	OBJECTIVE	TECHNIQUES	WHERE PERFORMED	TIME, DAYS
	CLINICAL EVALUATION	DETECT DEFECTS PHYSIOLOGICAL BASE LINES FORENSIC	CLINICAL LABORATORY CONTINUING BASE LINES PERSONALITY AND APTITUDE TESTS	WRAMC NNMC NIH ANDREWS AFB HOSP.	4
2	LANGLEY TECHNICAL AND PSYCHOLOGICAL TESTING		TEST FLIGHTS PSYCHOMOTOR TESTS {LECTURES, FIELD TRIPS WRITTEN AND ORAL TESTS EXTEMPORANEOUS SPEECHES ROLE PLAYING ISOLATION	LANGLEY RESEARCH CENTER	9
3	HUMAN STRESS TESTS	REDUCED SIMULATION OF MISSION ADAPTATION	CENTRIFUGE ALTITUDE CHAMBER HEAT CHAMBER OTHER	AMAL AND ACEL WADC NAMC (PENSACOLA)	4

DETAILS OF CLINICAL EVALUATION

PSYCHIATRY

UROLOGY

OPHTHALMOLOGY

GENERAL MEDICINE

OTOLARYINGOLOGY

RADIOLOGY

CARDIOLOGY

PATHOLOGY

GASTROENTEROLOGY

NEUROLOGY

ANTHROPOLOGY

DETAILS OF LANGLEY FIELD EVALUATIONS

I. ACADEMIC PROGRAM

LECTURES
TOURS
WRITTEN EXAMINATIONS
OBSERVATIONAL TESTS

IL. SOCIAL "STRESS" TESTS

ORAL EXAMINATIONS
EXTEMPORANEOUS SPEECHES
MOCK PRESS INTERVIEWS
ASSIGNMENT TO SPACE TASK
GROUP DEPARTMENT
SPACE TASK GROUP PARTY

III. FLIGHT TESTS

WEIGHTLESS FLIGHT CHECK FLIGHT

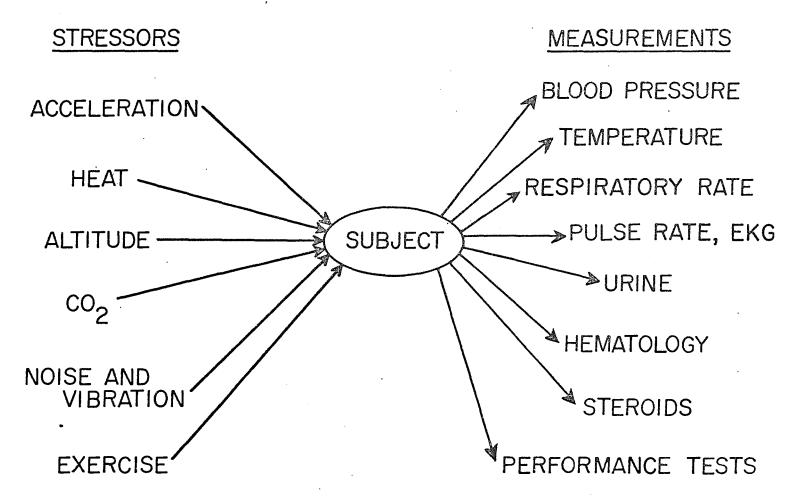
IV. PSYCHOMOTOR TESTS

REACTION CONTROLS TRAINER
DYNAMIC SIMULATORS

Y. ISOLATION

CONFINEMENT IN SIMULATED CAPSULE

DETAILS OF HUMAN STRESS TESTS



TRAINING PROGRAM

I-APPROACH

A-GRADUAL BUILD UP

B-SECONDARY SELECTION

C-CONTRIBUTION TO R-AND-D

EFFORT

II-AREA OF TRAINING

A-PHYSIOLOGICAL

B-ACADEMIC

I. BASIC SCIENCE

2. VEHICLE AND OPERATIONAL

PROBLEMS

C-GROUND SIMULATOR TRAINING

D-FLIGHT TRAINING

III-TRAINING STAGES

A-BASIC GROUND TRAINING

B-ADVANCED GROUND TRAINING

C-PRIMARY FLIGHT TRAINING

D-ADVANCED FLIGHT TRAINING

STARTING DATE

4/1/59

5/15/59

10/1/59

1/1/60

BASIC GROUND TRAINING

I-PHYSIOLOGICAL

A-ACADEMIC

B-PHYSICAL CONDITIONING

C-BASIC PHYSIOLOGICAL STUDIES

D-BASIC ALTITUDE TRAINING AND PRESSURE SUIT FITTING

II-ACADEMIC PROGRAM (BASIC SCIENCES):
ASTRONOMY
METEOROLOGY
AERODYNAMICS
ETC.

ADVANCED GROUND TRAINING

I - PHYSIOLOGICAL

- A GROUND SIMULATION OF MISSION
 - I. STATIC SIMULATION AT LANGLEY
 - 2. DYNAMIC SIMULATION AT AMAL
- **B IMPACT TESTS**

II-OPERATIONAL TRAINING

- A ACADEMIC PROGRAM
- **B-GROUND SIMULATORS**
 - I. NAVIGATIONAL TRAINERS
 - 2. REACTION CONTROLS TRAINER
 - 3. DYNAMIC SIMULATION AT AMAL

C-AIRBORNE TESTS

- I. WEIGHTLESSNESS
- 2. BREAK-OFF PHENOMENA

L-665

FLIGHT TRAINING TENTATIVE

PRIMARY

- I. DROP TESTS

 DROP FROM C-130 AT 40,000 FT
- II. ESCAPE SYSTEM FLIGHTS
 LAUNCH FROM PAD
- III. BALLOON FLIGHTS

 24 HRS AT 80,000 FT DROP FROM 80,000 FT

ADVANCED

I. SUB-ORBITAL FLIGHTS

SUPPORTING RESEARCH

I. RESEARCH ADMINISTRATION

- A. APPLIED RESEARCH
 - I. SPACE TASK GROUP
 - 2. SUBCONTRACTOR
- B. BASIC RESEARCH STG WILL:
 - I. MAKE RECOMMENDATIONS FOR SUPPORT
 - 2. OFFER SPACE ON A NON-INTERFERENCE BASIS

II. TYPES OF PROJECTS PROPOSED

- A. ENVIRONMENTAL MEASUREMENTS
- B. SIMULATION OF STRESSES
- C. IN-FLIGHT RESEARCH
- D. EQUIPMENT EVALUATION

III. AREAS OF RESEARCH

- A. ACCELERATION
- B. NOISE AND VIBRATION
- C. TEMPERATURE
- D. WEIGHTLESSNESS
- E. NAVIGATION AND ORIENTATION
- F. RADIATION